



Valve islands with D-Sub connection and communication modules



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## Valve islands with D-Sub connection and communication modules

Valve island



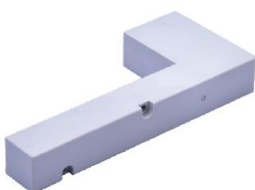
Manifold



Valve



Blanking plate



### Valves specification

| Model                    |                         | 6D0500                        | 6D100  | 6D200     |
|--------------------------|-------------------------|-------------------------------|--------|-----------|
| Control type             |                         | pilot operated                |        |           |
| Valve type               |                         | 5/2, 5/3                      |        |           |
| Type of actuation        |                         | mono, bistable or 5/3         |        |           |
| Fluid                    |                         | compressed air filtered 40µm  |        |           |
| Operating pressure       |                         | 0.15÷0.80MPa                  |        |           |
| Proof pressure           |                         | 1.2MPa                        |        |           |
| Ambient temperature      |                         | -20÷70°C                      |        |           |
| Body material            |                         | aluminum                      |        |           |
| Number of stations       | 1-coil valves           | 3÷21                          |        |           |
|                          | 2-coil valves           | 3÷6                           |        |           |
|                          | mixed                   | max 6 x 2-coil* + 12 x 1-coil |        |           |
| D-Sub connector position |                         | from above or from the side   |        |           |
| Pilot valves supply      |                         | internal only**               |        |           |
| Port size                | A/B ports, push-in      | Ø4/6                          | Ø4/6/8 | Port size |
|                          | P/R/S ports, push-in*** | Ø8                            | Ø10    | Ø12       |
| Electrical connection    |                         | D-Sub 25-pin                  |        |           |

\* for valve islands with the number of positions from 19 to 21, the maximum number of positions for 2-solenoid valves is 3

\* valve islands with a maximum number of 2-coil positions up to 9 positions on *special order*

\*\* valve islands with external supply of pilot valves on *special order*

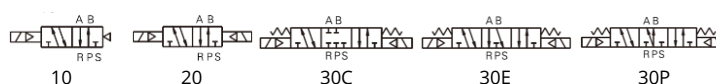
\*\*\* 1 plug-in silencer and 2 plugs are delivered with the valve island / valve manifold with number of positions up to 8. For mor positions than 8 are delivered 2 plug-in silencers and 1 plug.

| Size   | Model  | Action type | Flow rate [l/min (ANR)] | Switching frequency [cycle/sec] |
|--------|--------|-------------|-------------------------|---------------------------------|
| 6D0500 | 6D0510 | 5/2         | 155                     | 5                               |
|        | 6D0520 |             |                         |                                 |
|        | 6D0530 |             |                         |                                 |
| 6D100  | 6D110  | 5/2         | 420                     | 5                               |
|        | 6D120  |             |                         |                                 |
|        | 6D130  |             |                         |                                 |
| 6D200  | 6D210  | 5/2         | 750                     | 5                               |
|        | 6D220  |             |                         |                                 |
|        | 6D230  |             |                         |                                 |

### Coil specification

| Parameter                | Value        |
|--------------------------|--------------|
| Power supply voltage     | DC24V, DC12V |
| Power supply tolerance % | ±10%         |
| Power consumption        | 0.9W         |
| Protection               | IP40         |
| Insulation class         | F            |
| Response time            | ≤0.05s       |

### Pneumatic symbols



# SERIES 6D

Valve islands with D-Sub connection and communication modules

Communication module



## Communication modules specification

| Communication protocol   |                     | ProfiNet   | EtherNet/IP |
|--------------------------|---------------------|--|-------------|
| Number of outputs        |                     | 24   |             |
| Communication speed      |                     | 100Mbps  |             |
| Configuration file       |                     | GSDML  | EDS         |
| Input power              | Voltage             | 24VDC±10%  |             |
|                          | Current consumption | <100mA   |             |
| Voltage output           |                     | 24VDC±10%  |             |
| Output type              |                     | PNP, NPN   |             |
| Power connector          |                     | M12 plug, 5-pins, A-coded                        |             |
| Bus connector            |                     | 2x M12 socked, 4-pins, D-coded                   |             |
| Protection               |                     | IP40 (dust proof)                                |             |
| Ambient temperature      |                     | -10÷60°C   |             |
| Ambient humidity         |                     | 35÷80% (RH)                                      |             |
| Withstand voltage        |                     | AC500V by 1 min. - between terminals and housing |             |
| Insulation resistance    |                     | >10MΩ (DC500V) - between terminals and housing   |             |
| Communication connection |                     | serial connection                                |             |

Communication cable



Power cable



Mounting bracket



Valve island



### Valve islands catalogue numbers

6D
2H
20F
-
J08
B
S2
D1
C1
E1
P1
CPN1

| ① Serie   | ② Size    | ③ Number of stations  | ④ Port size (A/B)   | ⑤ Voltage            | ⑥ Number of individual valve types | ⑦ Communication modules  |
|-----------|-----------|---|---|----------------------|------------------------------------|--|
| 6D: serie | 05H: 0500 | 3F: 3 stations<br>4F: 4 stations<br>...<br>21F: 21 stations | J04: push-in Ø4mm<br>J06: push-in Ø6mm                      | B: DC24V<br>F: DC12V | See table below                    | CPN1: ProfiNet+PNP<br>CPN2: ProfiNet+NPN<br>CEN1: EtherNet/IP+PNP<br>CEN2: EtherNet/IP+NPN |
|           | 1H: 100   |   | J04: push-in Ø4mm<br>J06: push-in Ø6mm<br>J08: push-in Ø8mm |                      |                                    |  |
|           | ...       |   | J06: push-in Ø6mm<br>J08: push-in Ø8mm                      |                      |                                    |  |
|           | 2H: 200   |   | J08: push-in Ø8mm<br>J10: push-in Ø10mm                     |                      |                                    |  |

| Valve type according installation order on manifold | Q-ty  |
|---|---|
| 2-coil 5/2 bistable                                 | Blank: 0, S1: 1 pc, S2: 2 pcs, ..., S21 (max) |
| 1-coil 5/2 monostable                               | Blank: 0, D1: 1 pc, D2: 2 pcs, ..., D6 (max)  |
| ⑥ 2-coil 5/3, middle position closed                | Blank: 0, C1: 1 pc, C2: 2 pcs, ..., C6 (max)  |
| 2-coil 5/3, middle position exhausted               | Blank: 0, E1: 1 pc, E2: 2 pcs, ..., E6 (max)  |
| 2-coil 5/3, middle position pressurized             | Blank: 0, P1: 1 pc, P2: 2 pcs, ..., P6 (max)  |

Note 1: The maximum number of all stations on the valve manifold is 21.

Note 2: The maximum number of 2-coil valves (5/2 bistable and 5/3) is 6.

Note 3: If the number of specified valves is smaller than the number of valve stations, the positions without valves will be fitted with blanking plate.

### Valve catalogue numbers

6D
1
20
B

| ① Serie   | ② Size   | ③ Action type  | ④ Voltage            |
|-----------|----------|--|----------------------|
| 6D: serie | 05: 0500 | 10: 1-coil (monostable) 5/2<br>20: 2-coil (bistable) 5/2 | B: DC24V<br>F: DC12V |
|           | 1: 100   | 30C: 2-coil 5/3, closed center                           |                      |
|           | ...      | 30E: 2-coil 5/3, exhaust center                          |                      |
|           | 2: 200   | 30P: 2-coil 5/3, pressure center                         |                      |

### Manifold catalogue numbers (without valves)

6D
2H
20F
-
J08

| ① Serie   | ② Size    | ③ Number of stations  | ④ Port size (A/B)   |
|-----------|-----------|---|---|
| 6D: serie | 05H: 0500 | 3F: 3 stations<br>4F: 4 stations<br>...<br>21F: 21 stations | J04: push-in Ø4mm<br>J06: push-in Ø6mm                      |
|           | 1H: 100   |   | J04: push-in Ø4mm<br>J06: push-in Ø6mm<br>J08: push-in Ø8mm |
|           | ...       |   | J06: push-in Ø6mm<br>J08: push-in Ø8mm                      |
|           | 2H: 200   |   | J08: push-in Ø8mm<br>J10: push-in Ø10mm                     |

Note 1: The maximum number of all stations on the valve board is 21.

Note 2: The maximum number of 2-coil valve dedicated positions (5/2 bistable and 5/3 valves) is 6.

Note 3: The number of 2-coil valve dedicated stations is 3 or 6.

Note 4: The manifold is equipped with gaskets for valves.

### Blanking plate

- P-6D0500M-R2** – for 6D0500 manifold
- P-6D100M-R2** – for 6D100 manifold
- P-6D200M-R2** – for 6D200 manifold

Valve islands with D-Sub connection and communication modules

## Communication module catalogue numbers

| C- 6D PN 1         |   |  |
|--------------------|---|--|
| ①                  | ②   | ③  |
| Series             | Communication protocols                         | Output type  |
| <b>6D</b> : series | <b>PN</b> : ProfiNet<br><b>EN</b> : Ethernet/IP | <b>1</b> : PNP+24 outputs<br><b>2</b> : NPN+24 outputs |

## Communication cable catalogue numbers

| C- M12 □ PN □ 050                      |   |                                   |                         |                   |
|--|---|-----------------------------------|-------------------------|-------------------|
| ①                                      | ②   | ③                                 | ④                       | ⑤                 |
| Model                                  | Cable version   | Protocol type                     | Cable type              | Cable length      |
| <b>C-M12</b> : M12 communication cable | <b>Blank</b> : M12 plug both ends<br><b>RJ</b> : M12 plug z one site, RJ45 terminal on other site | <b>PN</b> : ProfiNet, EtherNet/IP | <b>Blank</b> : standard | <b>050</b> : 0.5m |
|  |   |                                   |                         | <b>100</b> : 1.0m |
|  |   |                                   |                         | <b>200</b> : 2.0m |
|  |   |                                   |                         | <b>300</b> : 3.0m |
|  |   |                                   |                         | <b>500</b> : 5.0m |

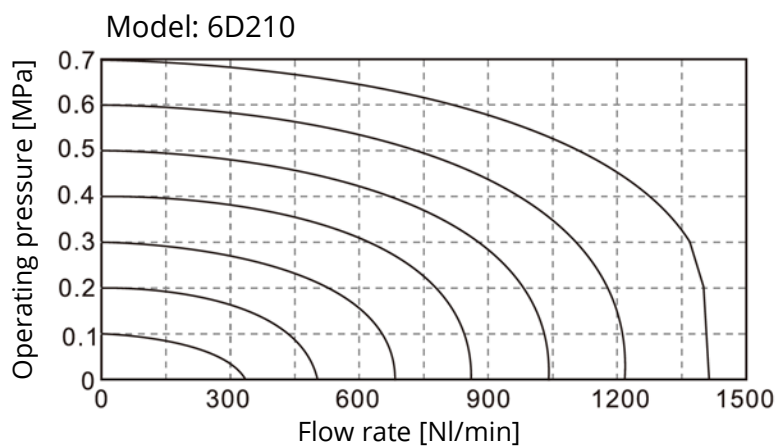
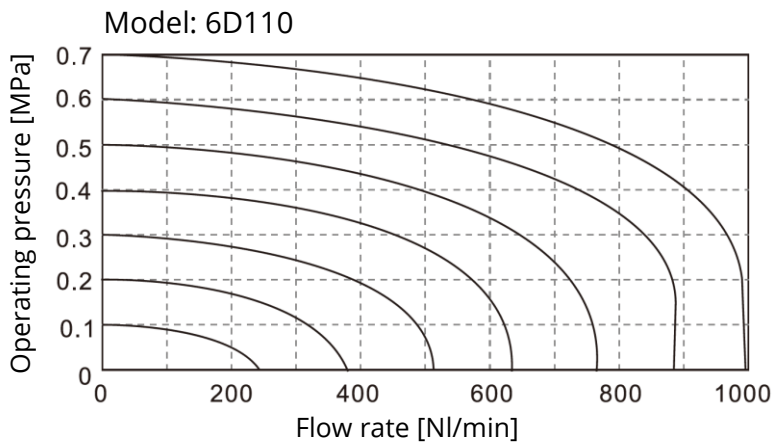
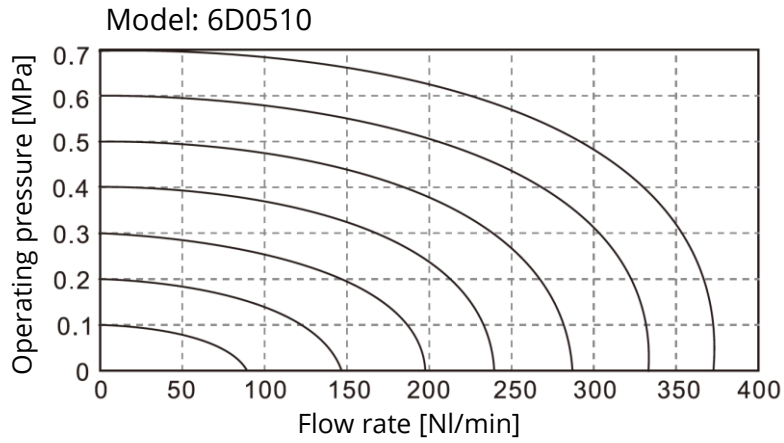
## Power supply cable catalogue numbers

| F- M12 PN □ 050                       |                                   |                         |                   |
|---------------------------------------|-----------------------------------|-------------------------|-------------------|
| ①                                     | ②                                 | ③                       | ④                 |
| Model                                 | Protocol type                     | Cable type              | Cable length      |
| <b>F-M12</b> : M12 power supply cable | <b>PN</b> : ProfiNet, EtherNet/IP | <b>Blank</b> : standard | <b>150</b> : 1.5m |
|                                       |                                   |                         | <b>300</b> : 3.0m |
|                                       |                                   |                         | <b>500</b> : 5.0m |

## Mounting brackets catalogue numbers

- P-6D0500PN-R2** – for 6D0500 manifold
- P-6D100PN-R2** – for 6D100 manifold
- P-6D200PN-R2** – for 6D200 manifold

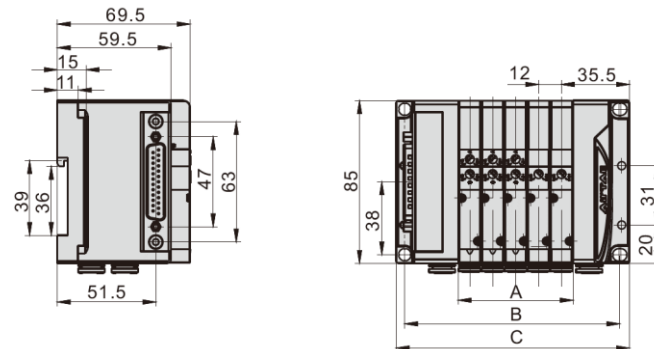
## Valve characteristics



## Valve islands with D-Sub connection and communication modules

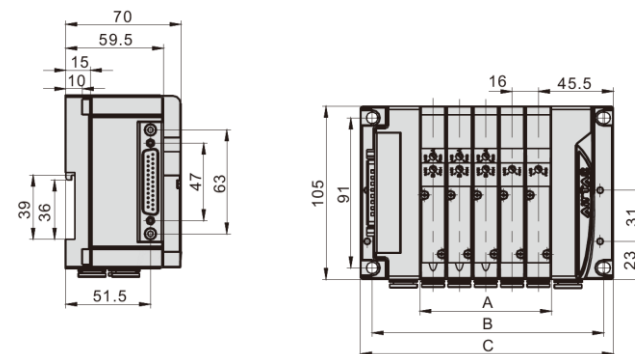
### Dimensional drawings of D-Sub valve islands

#### 6D0500



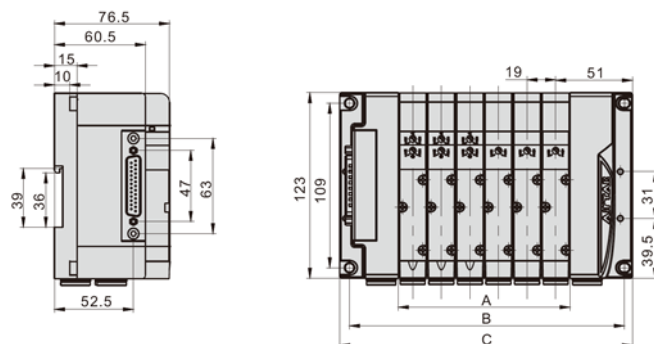
| Dimension/Stations | 3F   | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | 36.0 | 48.0  | 60.0  | 72.0  | 84.0  | 96.0  | 108.0 | 120.0 | 132.0 | 144.0 | 156.0 | 168.0 | 180.0 | 192.0 | 204.0 | 216.0 | 228.0 | 240.0 | 252.0 |
| B                  | 88.5 | 100.5 | 112.5 | 124.5 | 136.5 | 148.5 | 160.5 | 172.5 | 184.5 | 196.5 | 208.5 | 220.5 | 232.5 | 244.5 | 256.5 | 268.5 | 280.5 | 292.5 | 304.5 |
| C                  | 98.0 | 110.0 | 122.0 | 134.0 | 146.0 | 158.0 | 170.0 | 182.0 | 194.0 | 206.0 | 218.0 | 230.0 | 242.0 | 254.0 | 266.0 | 278.0 | 290.0 | 302.0 | 314.0 |

#### 6D100



| Dimension/Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A                  | 48.0  | 64.0  | 80.0  | 96.0  | 112.0 | 128.0 | 144.0 | 160.0 | 176.0 | 192.0 | 208.0 | 224.0 | 240.0 | 256.0 | 272.0 | 288.0 | 304.0 | 320.0 | 336.0 |
| B                  | 108.5 | 124.5 | 140.5 | 156.5 | 172.5 | 188.5 | 204.5 | 220.5 | 236.5 | 252.5 | 268.5 | 284.5 | 300.5 | 316.5 | 332.5 | 348.5 | 364.5 | 380.5 | 396.5 |
| C                  | 121.5 | 137.5 | 153.5 | 169.5 | 185.5 | 201.5 | 217.5 | 233.5 | 249.5 | 265.5 | 281.5 | 297.5 | 313.5 | 329.5 | 345.5 | 361.5 | 377.5 | 393.5 | 409.5 |

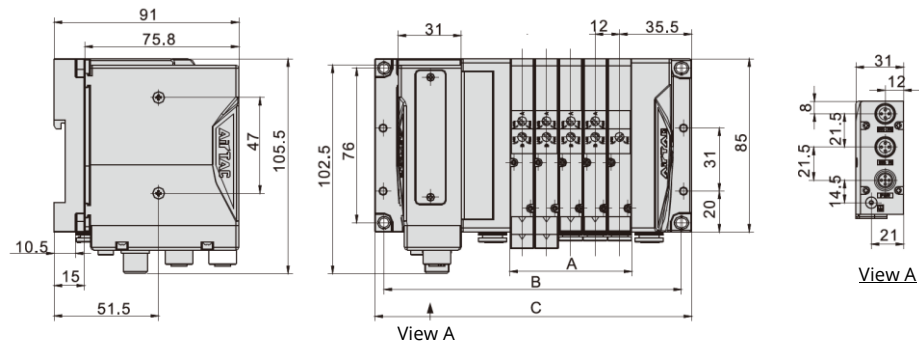
#### 6D200



| Dimension/Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A                  | 57.0  | 76.0  | 95.0  | 114.0 | 133.0 | 152.0 | 171.0 | 190.0 | 209.0 | 228.0 | 247.0 | 266.0 | 285.0 | 304.0 | 323.0 | 342.0 | 361.0 | 380.0 | 399.0 |
| B                  | 125.5 | 144.5 | 163.5 | 182.5 | 201.5 | 220.5 | 239.5 | 258.5 | 277.5 | 296.5 | 315.5 | 334.5 | 353.5 | 372.5 | 391.5 | 410.5 | 429.5 | 448.5 | 467.5 |
| C                  | 137.5 | 156.5 | 175.5 | 194.5 | 213.5 | 232.5 | 251.5 | 270.5 | 289.5 | 308.5 | 327.5 | 346.5 | 365.5 | 384.5 | 403.5 | 422.5 | 441.5 | 460.5 | 479.5 |

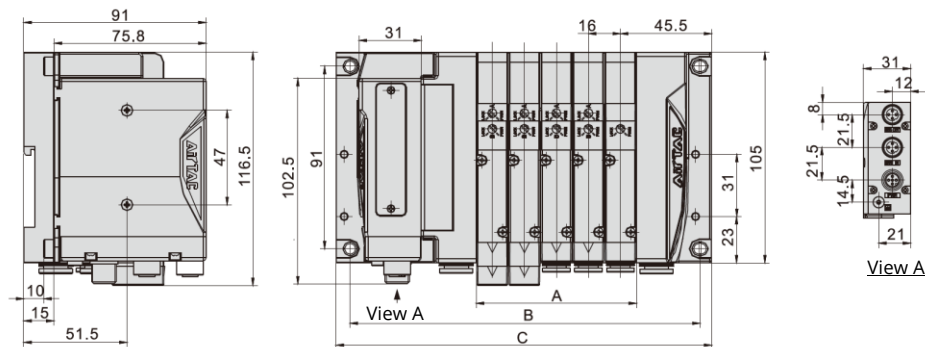
### Dimensional drawings of valve islands with communication module

#### 6D0500



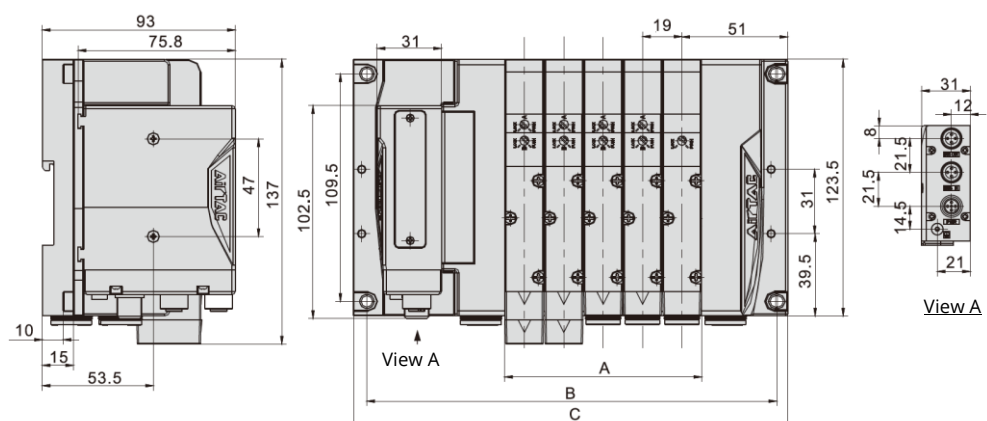
| Dimension/Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A                  | 36.0  | 48.0  | 60.0  | 72.0  | 84.0  | 96.0  | 108.0 | 120.0 | 132.0 | 144.0 | 156.0 | 168.0 | 180.0 | 192.0 | 204.0 | 216.0 | 228.0 | 240.0 | 252.0 |
| B                  | 122.5 | 134.5 | 146.5 | 158.5 | 170.5 | 182.5 | 194.5 | 206.5 | 218.5 | 230.5 | 242.5 | 254.5 | 266.5 | 278.5 | 290.5 | 302.5 | 314.5 | 326.5 | 338.5 |
| C                  | 132.0 | 144.0 | 156.0 | 168.0 | 180.0 | 192.0 | 204.0 | 216.0 | 228.0 | 240.0 | 252.0 | 264.0 | 276.0 | 288.0 | 300.0 | 312.0 | 324.0 | 336.0 | 348.0 |

#### 6D100



| Dimension/Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A                  | 48.0  | 64.0  | 80.0  | 96.0  | 112.0 | 128.0 | 144.0 | 160.0 | 176.0 | 192.0 | 208.0 | 224.0 | 240.0 | 256.0 | 272.0 | 288.0 | 304.0 | 320.0 | 336.0 |
| B                  | 142.5 | 158.5 | 174.5 | 190.5 | 206.5 | 222.5 | 238.5 | 254.5 | 270.5 | 286.5 | 302.5 | 318.5 | 334.5 | 350.5 | 366.5 | 382.5 | 398.5 | 414.5 | 430.5 |
| C                  | 155.5 | 171.5 | 187.5 | 203.5 | 219.5 | 235.5 | 251.5 | 267.5 | 283.5 | 299.5 | 315.5 | 331.5 | 347.5 | 363.5 | 379.5 | 395.5 | 411.5 | 427.5 | 443.5 |

#### 6D200

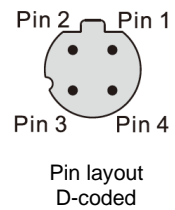
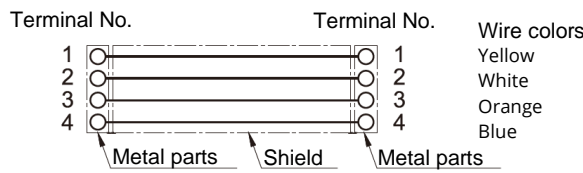
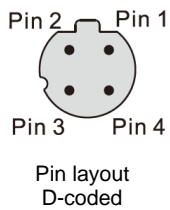
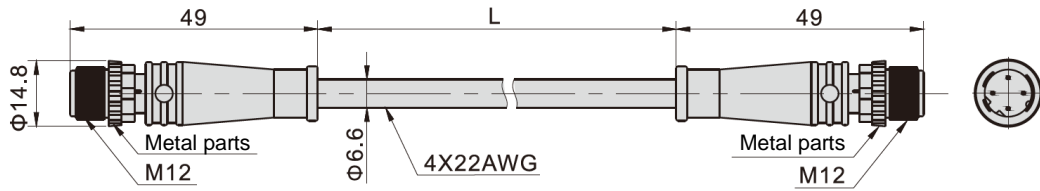


| Dimension/Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A                  | 57.0  | 76.0  | 95.0  | 114.0 | 133.0 | 152.0 | 171.0 | 190.0 | 209.0 | 228.0 | 247.0 | 266.0 | 285.0 | 304.0 | 323.0 | 342.0 | 361.0 | 380.0 | 399.0 |
| B                  | 159.5 | 178.5 | 197.5 | 216.5 | 235.5 | 254.5 | 273.5 | 292.5 | 311.5 | 330.5 | 349.5 | 368.5 | 387.5 | 406.5 | 425.5 | 444.5 | 463.5 | 482.5 | 501.5 |
| C                  | 171.5 | 190.5 | 209.5 | 228.5 | 247.5 | 266.5 | 285.5 | 304.5 | 323.5 | 342.5 | 361.5 | 380.5 | 399.5 | 418.5 | 437.5 | 456.5 | 475.5 | 494.5 | 513.5 |

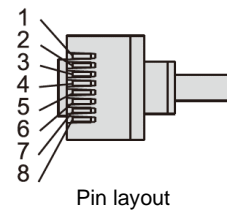
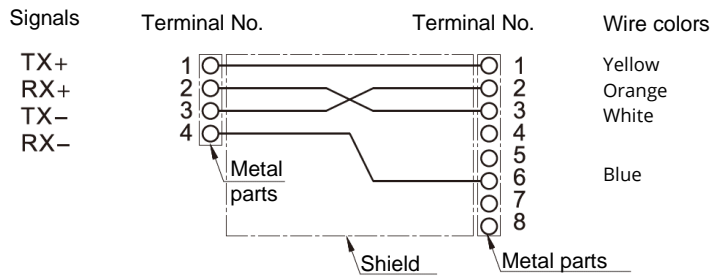
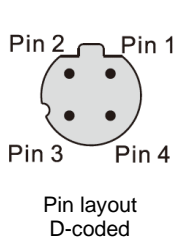
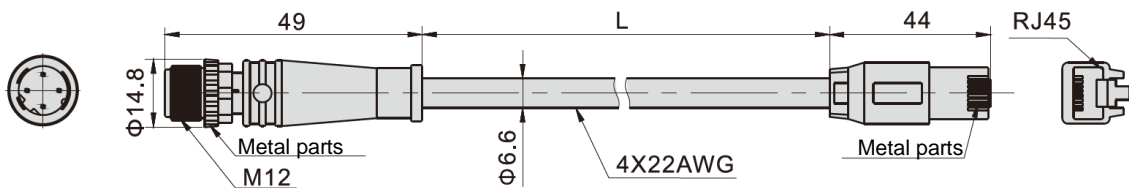


## Valve islands with D-Sub connection and communication modules

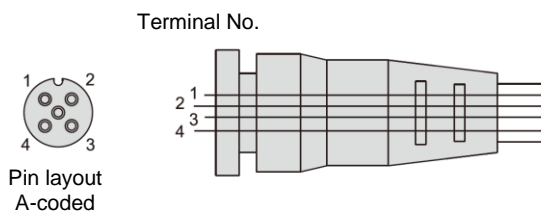
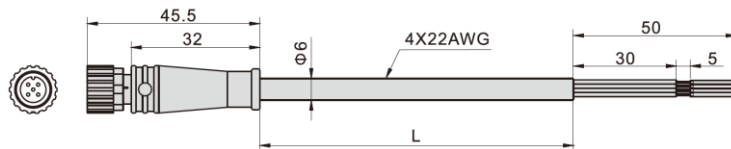
### Communication cable M12-M12 drawings



### Communication cable M12-RJ45 drawings



### Power supply cable M12 to wires



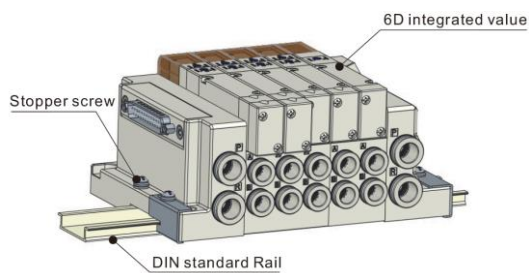
| Wire layout instruction |             |                                   |       |
|-------------------------|-------------|-----------------------------------|-------|
| Terminal No.            | Gauge (AWG) | Description                       | Color |
| 1                       | 22          | 24VDC±10% (solenoid valves power) | Brown |
| 2                       | 22          | 0V (solenoid valves power)        | White |
| 3                       | 22          | 24VDC±10% (module power)          | Blue  |
| 4                       | 22          | 0V (module power)                 | Black |

## Valve islands with D-Sub connection and communication modules

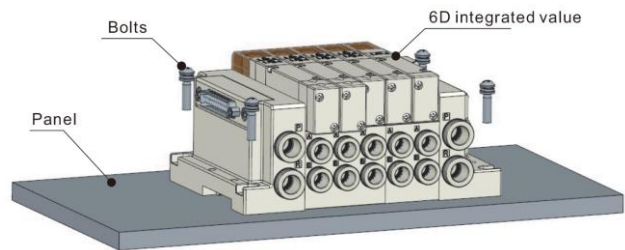
### D-Sub valve islands installation

1. The valve terminal can be mounted directly to the mounting plate or via a DIN rail.

#### Direct mounting

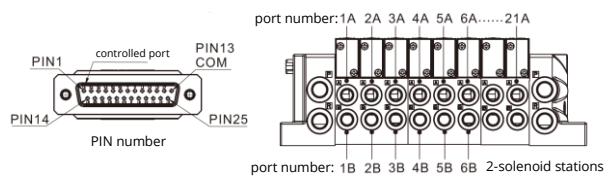


#### DIN rail mounting

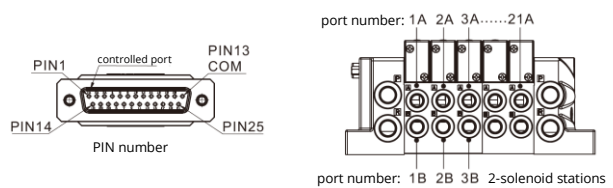


2. Pin assignment to valves on manifold

#### 3÷18 station manifolds



#### 19÷21 station manifolds



| Pin No. | Polarity |      | Controlled port | Pin No. | Polarity |      | Controlled port |
|---------|----------|------|-----------------|---------|----------|------|-----------------|
|         | -COM     | +COM |                 |         | -COM     | +COM |                 |
| 1       | (+)      | (-)  | 1 - port A      | 14      | (+)      | (-)  | 1 - port B      |
| 2       | (+)      | (-)  | 2 - port A      | 15      | (+)      | (-)  | 2 - port B      |
| 3       | (+)      | (-)  | 3 - port A      | 16      | (+)      | (-)  | 3 - port B      |
| 4       | (+)      | (-)  | 4 - port A      | 17      | (+)      | (-)  | 4 - port B      |
| 5       | (+)      | (-)  | 5 - port A      | 18      | (+)      | (-)  | 5 - port B      |
| 6       | (+)      | (-)  | 6 - port A      | 19      | (+)      | (-)  | 6 - port B      |
| 7       | (+)      | (-)  | 7 - port A      | 20      | (+)      | (-)  | 8 - port A      |
| 8       | (+)      | (-)  | 9 - port A      | 21      | (+)      | (-)  | 10 - port A     |
| 9       | (+)      | (-)  | 11 - port A     | 22      | (+)      | (-)  | 12 - port A     |
| 10      | (+)      | (-)  | 12 - port A     | 23      | (+)      | (-)  | 14 - port A     |
| 11      | (+)      | (-)  | 13 - port A     | 24      | (+)      | (-)  | 16 - port A     |
| 12      | (+)      | (-)  | 17 - port A     | 25      | (+)      | (-)  | 18 - port A     |
| 13      | (-)      | (+)  | COM             |         |          |      |                 |

Note: the cross-section of the cable No. 13 (COM) must be ≤22AWG (the diameter of the wire must not be less than 0.64mm)

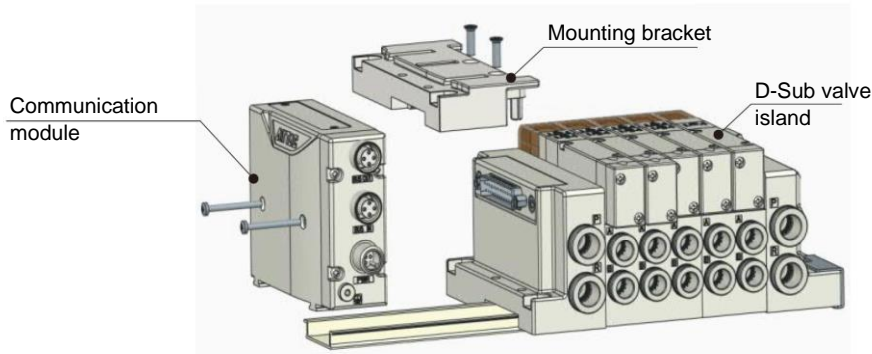
| Pin No. | Polarity |      | Controlled port | Pin No. | Polarity |      | Controlled port |
|---------|----------|------|-----------------|---------|----------|------|-----------------|
|         | -COM     | +COM |                 |         | -COM     | +COM |                 |
| 1       | (+)      | (-)  | 1 - port A      | 14      | (+)      | (-)  | 1 - port B      |
| 2       | (+)      | (-)  | 2 - port A      | 15      | (+)      | (-)  | 2 - port B      |
| 3       | (+)      | (-)  | 3 - port A      | 16      | (+)      | (-)  | 3 - port B      |
| 4       | (+)      | (-)  | 4 - port A      | 17      | (+)      | (-)  | 5 - port A      |
| 5       | (+)      | (-)  | 6 - port A      | 18      | (+)      | (-)  | 7 - port A      |
| 6       | (+)      | (-)  | 8 - port A      | 19      | (+)      | (-)  | 9 - port A      |
| 7       | (+)      | (-)  | 10 - port A     | 20      | (+)      | (-)  | 11 - port A     |
| 8       | (+)      | (-)  | 12 - port A     | 21      | (+)      | (-)  | 13 - port A     |
| 9       | (+)      | (-)  | 14 - port A     | 22      | (+)      | (-)  | 15 - port A     |
| 10      | (+)      | (-)  | 16 - port A     | 23      | (+)      | (-)  | 17 - port A     |
| 11      | (+)      | (-)  | 18 - port A     | 24      | (+)      | (-)  | 19 - port A     |
| 12      | (+)      | (-)  | 20 - port A     | 25      | (+)      | (-)  | 21 - port A     |
| 13      | (-)      | (+)  | COM             |         |          |      |                 |

Note: the cross-section of the cable No. 13 (COM) must be ≤22AWG (the diameter of the wire must not be less than 0.64mm)

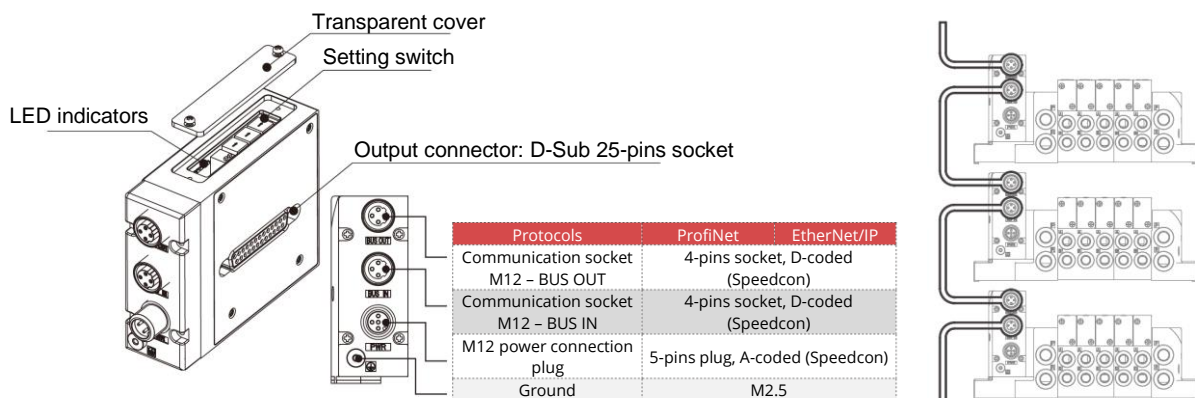
## Valve islands with D-Sub connection and communication modules

### Module integration with D-Sub manifold

#### Assembly of D-Sub manifold and communication module

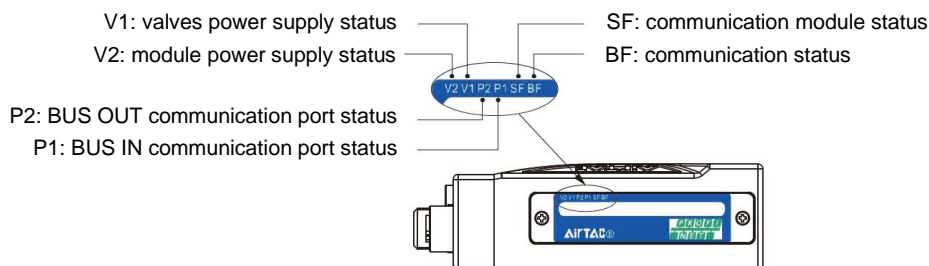


#### Construction and function



#### LED indicators

##### ProfiNet (C-6DPN□)



##### EtherNet/IP (C-6DEN□)

